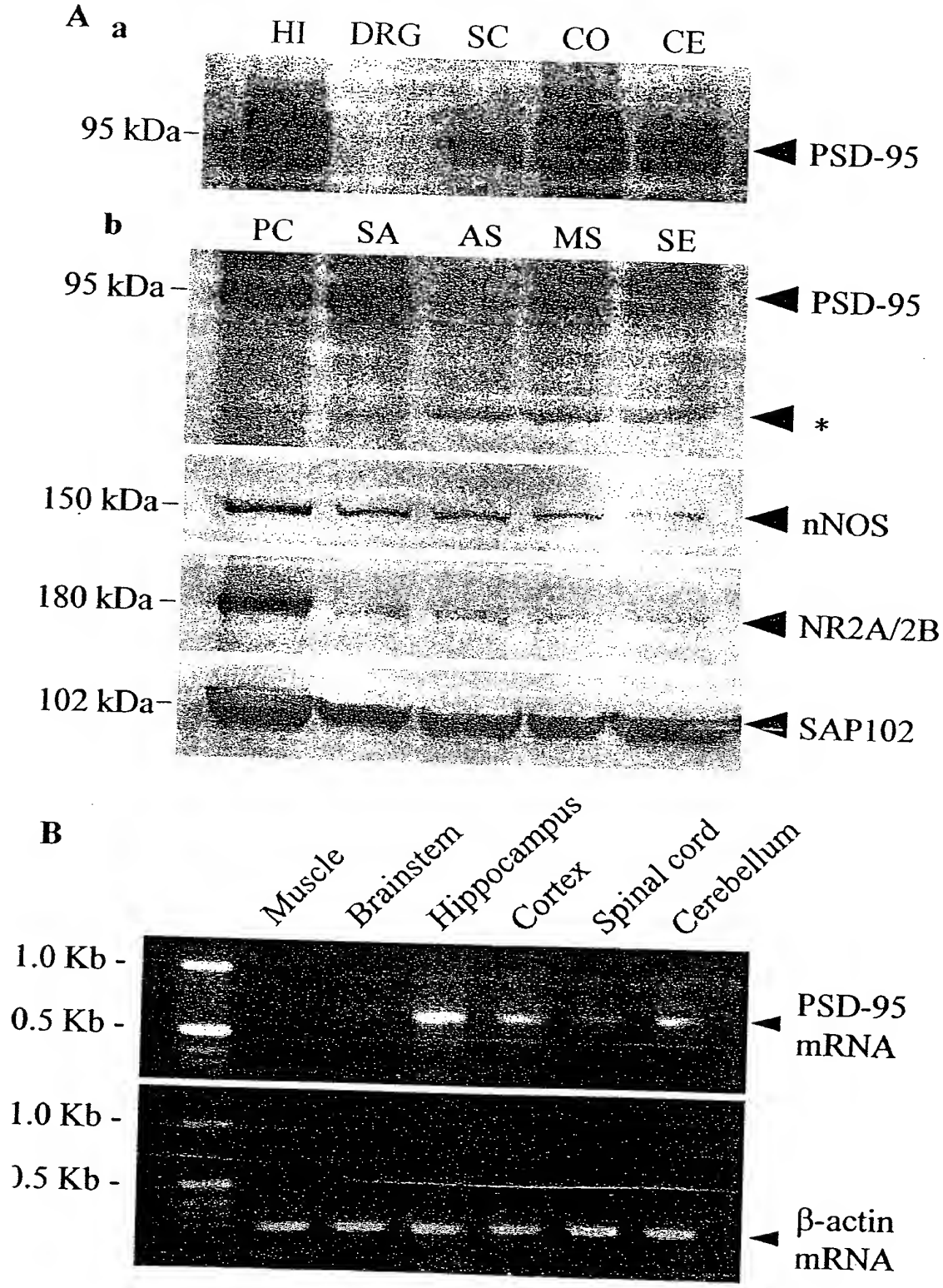
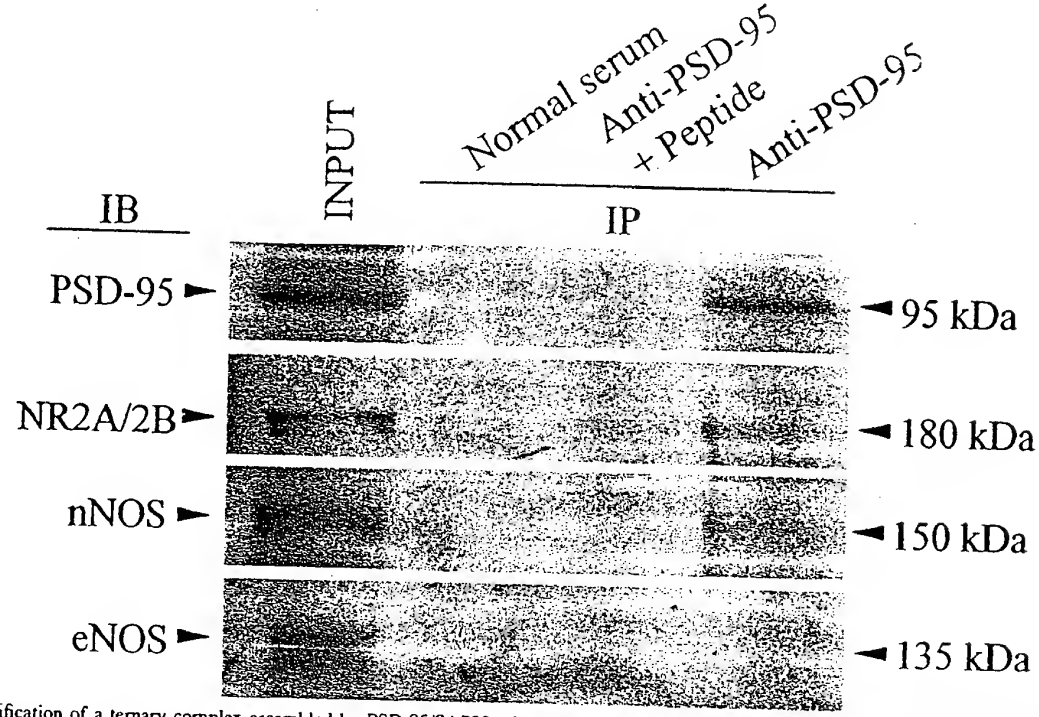

A
a
HI
DRG
SC
CO
CE
95 kDa
PSD-95
b
PC
SA
AS
MS
SE
95 kDa
PSD-95
*
150 kDa
nNOS
180 kDa
NR2A/2B
102 kDa
SAP102
B
Muscle
Brainstem
Hippocampus
Cortex
Spinal cord
Cerebellum
1.0 Kb
0.5 Kb
PSD-95 mRNA
1.0 Kb
0.5 Kb
β-actin mRNA

Fig. 1

Fig. 2. Distribution of PSD-95/SAP90 immunoreactivity in lumbar enlargement segments of the spinal cord. The PSD-95/SAP90 immunoreactivity was localized mainly in lamina I and outer lamina II (A). Under high magnification, many PSD-95/SAP90 immunoreactive puncta were observed (B). Scale bars = 200 μm (A), 40 μm (B).



Identification of a ternary complex assembled by PSD-95/SAP90 with NR2A/2B and nNOS in the spinal cord neurons. PSD-95/SAP90 antibody precipitated not only PSD-95/SAP90 but also NR2A/2B and nNOS. In contrast, eNOS was not immunoprecipitated by PSD-95/SAP90 antibody. Ten micrograms of protein were loaded in INPUT lane and 100 μg in other lanes.

Fig. 3

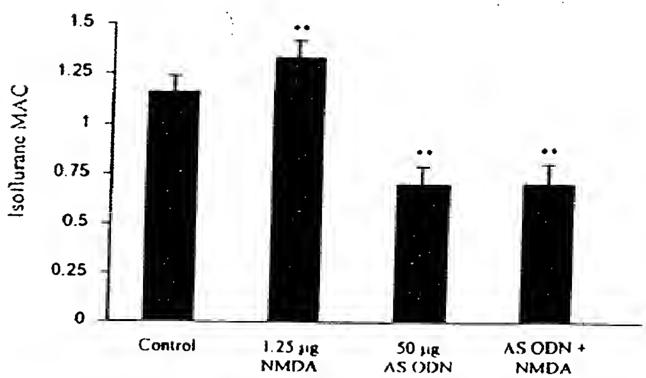

Isoflurane MAC
1.5
1.25
1
0.75
0.5
0.25
0
Control
1.25 µg NMDA
50 µg AS ODN
AS ODN + NMDA

Fig. 4